SIEMENS

Data sheet 3RT5035-1AP00



Contactor AC 230 V 50 HZ AC3 18,5 kW 400 V 3 pole, mod. S2 screw terminal

product brand name	SIRIUS
product designation	Power contactor
product type designation	3RT5
General technical data	
size of contactor	S2
product extension auxiliary switch	Yes
power loss [W] for rated value of the current	
 at AC in hot operating state per pole 	2.6 W
without load current share typical	4.5 W
type of calculation of power loss depending on pole	quadratic
insulation voltage rated value	690 V
degree of pollution	3
surge voltage resistance rated value	6 kV
maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1	400 V
shock resistance at rectangular impulse	
• at AC	10g / 5 ms, 5g / 10 ms
shock resistance with sine pulse	
• at AC	15g / 5 ms, 8g / 10 ms
mechanical service life (operating cycles)	
of contactor typical	10 000 000
of the contactor with added auxiliary switch block typical	10 000 000
Substance Prohibitance (Date)	03/01/2017
SVHC substance name	Lead - 7439-92-1
Weight	0.85 kg
Ambient conditions	
installation altitude at height above sea level maximum	2 000 m
ambient temperature	
 during operation 	-25 +60 °C
during storage	-55 +80 °C
Main circuit	
number of poles for main current circuit	3
number of NO contacts for main contacts	3
number of NC contacts for main contacts	0
operating voltage	
 at AC-3 rated value maximum 	690 V
at AC-3e rated value maximum	690 V
operational current	
• at AC-1 up to 690 V	
 at ambient temperature 40 °C rated value 	60 A

— at ambient temperature 60 °C rated value	55 A
• at AC-3	
— at 400 V rated value	40 A
— at 690 V rated value	24 A
• at AC-3e	
— at 400 V rated value	40 A
— at 690 V rated value	24 A
connectable conductor cross-section in main circuit at AC-	
1 a at 60 °C minimum normicaible	16 mm²
• at 60 °C minimum permissible	16 mm²
• at 40 °C minimum permissible	16 mm²
operational current for approx. 200000 operating cycles at AC-4	
• at 400 V rated value	18.5 A
• at 690 V rated value	12.6 A
operating power	
• at AC-1	
— at 230 V at 60 °C rated value	22 kW
— at 400 V at 60 °C rated value	38 kW
— at 690 V at 60 °C rated value	66 kW
• at AC-3	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
• at AC-3e	
— at 230 V rated value	11 kW
— at 400 V rated value	18.5 kW
— at 500 V rated value	22 kW
— at 690 V rated value	22 kW
operating power for approx. 200000 operating cycles at AC-	EE KII
4	
 at 400 V rated value 	9.5 kW
at 690 V rated value	11.4 kW
no-load switching frequency	
no-load switching frequency • at AC	5 000 1/h
	5 000 1/h
• at AC	5 000 1/h 1 200 1/h
• at AC operating frequency	
• at AC operating frequency • at AC-1 maximum	1 200 1/h
at AC operating frequency at AC-1 maximum at AC-3 maximum	1 200 1/h 1 000 1/h
 at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum 	1 200 1/h 1 000 1/h 1 000 1/h
 at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum 	1 200 1/h 1 000 1/h 1 000 1/h
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4e maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4e maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h
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at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3 e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V 0.8 1.1
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4e maximum out AC-4e maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4e maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V 0.8 1.1 145 VA 0.79
at AC operating frequency at AC-1 maximum at AC-3 maximum at AC-3e maximum at AC-4 maximum control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz apparent pick-up power of magnet coil at AC at 50 Hz inductive power factor with closing power of the coil at 50 Hz apparent holding power of magnet coil at AC at 50 Hz	1 200 1/h 1 000 1/h 1 000 1/h 300 1/h AC 230 V 0.8 1.1
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operational current at AC-15	
at 230 V rated value	6 A
at 400 V rated value	3 A
operational current at DC-12	
 at 110 V rated value 	3 A
at 220 V rated value	1 A
operational current at DC-13	
 at 24 V rated value 	6 A
 at 110 V rated value 	1 A
at 220 V rated value	0.3 A
contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
JL/CSA ratings	
yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value	30 hp
Short-circuit protection	
design of the fuse link	
 for short-circuit protection of the main circuit 	
 — with type of coordination 1 required 	fuse gL/gG: 125 A
 — with type of assignment 2 required 	fuse gL/gG: 63 A
• for short-circuit protection of the auxiliary switch required	fuse gL/gG: 10 A
nstallation/ mounting/ dimensions	
mounting position	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
fastening method	screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022
height	112 mm
width	55 mm
depth	115 mm
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
 for auxiliary and control circuit 	screw-type terminals
type of connectable conductor cross-sections for main contacts	
 solid or stranded 	2x (0.75 16 mm²)
 finely stranded with core end processing 	2x (0.75 16 mm²)
 finely stranded without core end processing 	2x (0.75 16 mm²)
type of connectable conductor cross-sections	
 for auxiliary contacts 	
— finely stranded with core end processing	2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)
 for AWG cables for auxiliary contacts 	2x (20 16), 2x (18 14), 1x 12
Electrical Safety	
protection class IP on the front according to IEC 60529	IP20
touch protection on the front according to IEC 60529	
1 0 15	finger-safe, for vertical contact from the front
Approvals Certificates	finger-safe, for vertical contact from the front

EG-Konf.

Confirmation









Marine / Shipping other Environment

CCS (China Classification Society)

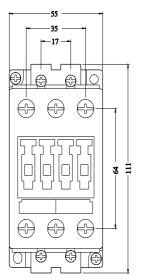
Confirmation

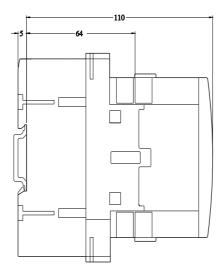
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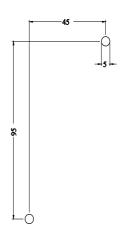
Environmental Confirmations

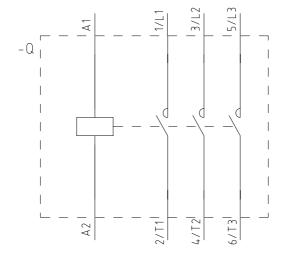
Further information

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/products?pnid=16027&lc=en-CN









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